SEQUENCE LISTING

<110> National University of Singapore

<120> Pygopus in Diagnosis and Treatment of Cancer

<130> 50680-4

<150> US 60/463 309
<151> 2003-04-17

<150> US 60/496 012
<151> 2003-08-19

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<170> PatentIn version 3.3

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gcc tcg gcg ccg ccc cca ccg gac aag ctg gag gga ggt ggc ggc ccc   226
Ala Ser Ala Pro Pro Pro Pro Asp Lys Leu Glu Gly Gly Gly Gly Pro
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gca ccg ccc cct gcg ccg ccc agc acc ggg agg aag cag ggc aag gcc   274
Ala Pro Pro Pro Ala Pro Pro Ser Thr Gly Arg Lys Gln Gly Lys Ala
     20   25   30

ggt ctg caa atg aag agt cca gaa aag aag cga agg aag tca aat act   322
Gly Leu Gln Met Lys Ser Pro Glu Lys Lys Arg Arg Lys Ser Asn Thr
35   40   45   50

cag ggc cct gca tac tca cat ctg acg gag ttt gca cca ccc cca act   370
Gln Gly Pro Ala Tyr Ser His Leu Thr Glu Phe Ala Pro Pro Pro Thr
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ccc atg gtg gat cac ctg gtt gca tcc aac cct ttt gaa gat gac ttc   418
Pro Met Val Asp His Leu Val Ala Ser Asn Pro Phe Glu Asp Asp Phe
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gga gcc ccc aaa gtg ggg gtt gca gcc cct cca ttc ctt ggc agt cct        466
Gly Ala Pro Lys Val Gly Val Ala Ala Pro Pro Phe Leu Gly Ser Pro
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gtg ccc ttc gga ggc ttc cgt gtg cag ggg ggc atg gcg ggc cag gta        514
Val Pro Phe Gly Gly Phe Arg Val Gln Gly Gly Met Ala Gly Gln Val
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ccc cca ggc tac agc act gga ggt gga ggg ggc ccc cag cca ctc cgt        562
Pro Pro Gly Tyr Ser Thr Gly Gly Gly Gly Gly Pro Gln Pro Leu Arg
115             120             125             130

cga cag cca ccc ccc ttc cct ccc aat cct atg ggc cct gct ttc aac        610
Arg Gln Pro Pro Pro Phe Pro Pro Asn Pro Met Gly Pro Ala Phe Asn
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atg ccc ccc cag ggt cct ggc tac cca ccc cca ggc aac atg aac ttt        658
Met Pro Pro Gln Gly Pro Gly Tyr Pro Pro Pro Gly Asn Met Asn Phe
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ccc agc caa ccc ttc aac cag cct ctg ggt caa aac ttt agt cct ccc        706
Pro Ser Gln Pro Phe Asn Gln Pro Leu Gly Gln Asn Phe Ser Pro Pro
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agt ggg cag atg atg ccg ggc cca gtg ggg gga ttt ggt ccc atg atc        754
Ser Gly Gln Met Met Pro Gly Pro Val Gly Gly Phe Gly Pro Met Ile
180             185             190

tca ccc acc atg gga cag cct ccc aga gca gag ctg ggc cca cct tct        802
Ser Pro Thr Met Gly Gln Pro Pro Arg Ala Glu Leu Gly Pro Pro Ser
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ctg tcc caa cga ttt gct cag cca ggg gct cct ttt ggc cct tct cct        850
Leu Ser Gln Arg Phe Ala Gln Pro Gly Ala Pro Phe Gly Pro Ser Pro
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ctc cag aga cct ggt cag ggg ctc ccc agc ctg ccg cct aac aca agt        898
Leu Gln Arg Pro Gly Gln Gly Leu Pro Ser Leu Pro Pro Asn Thr Ser
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ccc ttt cct ggt ccg gac cct ggc ttt cct ggc cct ggt ggt gag gat        946
Pro Phe Pro Gly Pro Asp Pro Gly Phe Pro Gly Pro Gly Gly Glu Asp
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ggg ggg aag ccc ttg aat cca cct gct tct act gct ttt ccc cag gag        994
Gly Gly Lys Pro Leu Asn Pro Pro Ala Ser Thr Ala Phe Pro Gln Glu
260             265             270

ccc cac tca ggc tcc ccg gct gct gct gtt aat ggg aac cag ccc agt       1042
Pro His Ser Gly Ser Pro Ala Ala Ala Val Asn Gly Asn Gln Pro Ser
275             280             285             290

ttc ccc ccg aac agc agt ggg cgg ggt ggg ggc act cca gat gcc aac       1090
Phe Pro Pro Asn Ser Ser Gly Arg Gly Gly Gly Thr Pro Asp Ala Asn
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agc ttg gca ccc cct ggc aag gca ggt ggg ggc tcc ggg ccc cag cct       1138
Ser Leu Ala Pro Pro Gly Lys Ala Gly Gly Gly Ser Gly Pro Gln Pro
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Asp Asp Gln Asp Ala Ile Leu Cys Glu Ala Ser Cys Gln Lys Trp Phe
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cac cgt gag tgc aca ggc atg act gag agc gcc tat ggg ctg ctg acc     1282
His Arg Glu Cys Thr Gly Met Thr Glu Ser Ala Tyr Gly Leu Leu Thr
355             360             365             370

act gaa gct tct gcc gtc tgg gcc tgc gat ctc tgc ctc aag acc aag     1330
Thr Glu Ala Ser Ala Val Trp Ala Cys Asp Leu Cys Leu Lys Thr Lys
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gag atc cag tct gtc tac atc cgt gag ggc atg ggg cag ctg gtg gct     1378
Glu Ile Gln Ser Val Tyr Ile Arg Glu Gly Met Gly Gln Leu Val Ala
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gct aac gat ggg tga cgctggtgaa gtggcccagg gaagtgcaca tgtctctccc     1433
Ala Asn Asp Gly
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        35              40                  45

Asn Thr Gln Gly Pro Ala Tyr Ser His Leu Thr Glu Phe Ala Pro Pro
    50              55              60

Pro Thr Pro Met Val Asp His Leu Val Ala Ser Asn Pro Phe Glu Asp
65                  70              75                  80

Asp Phe Gly Ala Pro Lys Val Gly Val Ala Ala Pro Pro Phe Leu Gly
                85              90                  95

Ser Pro Val Pro Phe Gly Gly Phe Arg Val Gln Gly Gly Met Ala Gly
        100             105                 110

Gln Val Pro Pro Gly Tyr Ser Thr Gly Gly Gly Gly Pro Gln Pro
        115             120                 125

Leu Arg Arg Gln Pro Pro Pro Phe Pro Pro Asn Pro Met Gly Pro Ala
    130             135                 140

Phe Asn Met Pro Pro Gln Gly Pro Gly Tyr Pro Pro Pro Gly Asn Met
145             150             155                 160

Asn Phe Pro Ser Gln Pro Phe Asn Gln Pro Leu Gly Gln Asn Phe Ser
            165             170                 175

Pro Pro Ser Gly Gln Met Met Pro Gly Pro Val Gly Gly Phe Gly Pro
        180             185                 190

Met Ile Ser Pro Thr Met Gly Gln Pro Pro Arg Ala Glu Leu Gly Pro
        195             200             205

Pro Ser Leu Ser Gln Arg Phe Ala Gln Pro Gly Ala Pro Phe Gly Pro
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Ser Pro Leu Gln Arg Pro Gly Gln Gly Leu Pro Ser Leu Pro Pro Asn
225             230             235             .       240

Thr Ser Pro Phe Pro Gly Pro Asp Pro Gly Phe Pro Gly Pro Gly Gly
            245             250             255

Glu Asp Gly Gly Lys Pro Leu Asn Pro Pro Ala Ser Thr Ala Phe Pro
            260             265             270

Gln Glu Pro His Ser Gly Ser Pro Ala Ala Ala Val Asn Gly Asn Gln
        275             280             285

Pro Ser Phe Pro Pro Asn Ser Ser Gly Arg Gly Gly Gly Thr Pro Asp
    290             295             300
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Ala Asn Ser Leu Ala Pro Pro Gly Lys Ala Gly Gly Gly Ser Gly Pro
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Gln Pro Pro Pro Gly Leu Val Tyr Pro Cys Gly Ala Cys Arg Ser Glu
        325             330             335

Val Asn Asp Asp Gln Asp Ala Ile Leu Cys Glu Ala Ser Cys Gln Lys
            340             345             350

Trp Phe His Arg Glu Cys Thr Gly Met Thr Glu Ser Ala Tyr Gly Leu
        355             360             365

Leu Thr Thr Glu Ala Ser Ala Val Trp Ala Cys Asp Leu Cys Leu Lys
    370             375             380

Thr Lys Glu Ile Gln Ser Val Tyr Ile Arg Glu Gly Met Gly Gln Leu
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Val Ala Ala Asn Asp Gly
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ggt ggt gat agt gga ctg gat ggg tta gga gga cca ggt gta caa cta       96
Gly Gly Asp Ser Gly Leu Asp Gly Leu Gly Gly Pro Gly Val Gln Leu
            20              25              30

gga agc cca gat aag aaa aag cgc aag gca aat aca cag gga cct tct      144
Gly Ser Pro Asp Lys Lys Lys Arg Lys Ala Asn Thr Gln Gly Pro Ser
        35              40              45

ttc cct cca ttg tct gag tat gct cca cca ccg aat cca aac tct gac      192
Phe Pro Pro Leu Ser Glu Tyr Ala Pro Pro Pro Asn Pro Asn Ser Asp
    50              55              60

cat cta gtg gct gct aat cca ttt gat gac aac tat aat act att tcc      240
His Leu Val Ala Ala Asn Pro Phe Asp Asp Asn Tyr Asn Thr Ile Ser
65              70              75              80

tat aaa cca cta cct tcg tca aat cca tat ctt ggc cct ggt tat cct      288
Tyr Lys Pro Leu Pro Ser Ser Asn Pro Tyr Leu Gly Pro Gly Tyr Pro
            85              90              95
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ggc ttt gga ggc tat agt aca ttc aga atg cca cct cac gtt ccc cca        336
Gly Phe Gly Gly Tyr Ser Thr Phe Arg Met Pro Pro His Val Pro Pro
            100                 105                 110

aga atg tct tcc cca tac tgt ggt cct tac tca ctc agg aac cag cca        384
Arg Met Ser Ser Pro Tyr Cys Gly Pro Tyr Ser Leu Arg Asn Gln Pro
            115                 120                 125

cac cca ttt cct cag aat cct ctg ggc atg ggt ttt aat cga cct cat        432
His Pro Phe Pro Gln Asn Pro Leu Gly Met Gly Phe Asn Arg Pro His
            130                 135                 140

gct ttt aac ttt ggg cca cat gat aat tca agt ttc ggt aat cca tct        480
Ala Phe Asn Phe Gly Pro His Asp Asn Ser Ser Phe Gly Asn Pro Ser
145                 150                 155                 160

tat aat aat gca cta agt cag aat gtc aac atg cct aat caa cat ttt        528
Tyr Asn Asn Ala Leu Ser Gln Asn Val Asn Met Pro Asn Gln His Phe
                165                 170                 175

aga caa aat cct gct gaa aat ttc agt caa att cct cca cag aat gct        576
Arg Gln Asn Pro Ala Glu Asn Phe Ser Gln Ile Pro Pro Gln Asn Ala
            180                 185                 190

agc caa gtt tct aac ccc gat ttg gca tct aat ttt gtt cct gga aat        624
Ser Gln Val Ser Asn Pro Asp Leu Ala Ser Asn Phe Val Pro Gly Asn
            195                 200                 205

aat tca aat ttt act tct ccg tta gaa tct aat cat tct ttt att cct        672
Asn Ser Asn Phe Thr Ser Pro Leu Glu Ser Asn His Ser Phe Ile Pro
210                 215                 220

ccc cca aac act ttt ggt caa gca aaa gca cca ccc cca aaa caa gac        720
Pro Pro Asn Thr Phe Gly Gln Ala Lys Ala Pro Pro Pro Lys Gln Asp
225                 230                 235                 240

ttt act caa gga gca acc aaa aac act aat caa aat tcc tct gct cat        768
Phe Thr Gln Gly Ala Thr Lys Asn Thr Asn Gln Asn Ser Ser Ala His
                245                 250                 255

cca cct cac ttg aat atg gat gac aca gtg aat cag agt aat att gaa        816
Pro Pro His Leu Asn Met Asp Asp Thr Val Asn Gln Ser Asn Ile Glu
            260                 265                 270

tta aaa aat gtt aat cga aac aat gca gta aat cag gag aac agc cgt        864
Leu Lys Asn Val Asn Arg Asn Asn Ala Val Asn Gln Glu Asn Ser Arg
            275                 280                 285

tca agt agc act gaa gcc aca aac aat aac cct gca aat ggg acg cag        912
Ser Ser Ser Thr Glu Ala Thr Asn Asn Asn Pro Ala Asn Gly Thr Gln
            290                 295                 300

aat aag cca cga caa cca aga ggt gca gca gat gcc tgc acc aca gaa        960
Asn Lys Pro Arg Gln Pro Arg Gly Ala Ala Asp Ala Cys Thr Thr Glu
305                 310                 315                 320

aaa agc aat aaa tcc tct ctt cac cca aac cgt cat ggc cat tcg tct       1008
Lys Ser Asn Lys Ser Ser Leu His Pro Asn Arg His Gly His Ser Ser
                325                 330                 335
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tct gac cca gtg tat cct tgt gga att tgt aca aac gag gtg aac gat      1056
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            340             345             350

gat cag gat gcc atc tta tgt gag gcc tct tgt cag aaa tgg ttt cat      1104
Asp Gln Asp Ala Ile Leu Cys Glu Ala Ser Cys Gln Lys Trp Phe His
            355             360             365

cgg atc tgt act gga atg act gaa aca gct tat ggc ctc tta act gca      1152
Arg Ile Cys Thr Gly Met Thr Glu Thr Ala Tyr Gly Leu Leu Thr Ala
    370             375             380

gaa gca tct gca gta tgg ggc tgt gat acc tgt atg gct gac aaa gat      1200
Glu Ala Ser Ala Val Trp Gly Cys Asp Thr Cys Met Ala Asp Lys Asp
385             390             395             400

gtc cag tta atg cgt act aga gaa act ttt ggt cca tct gca gtg ggc      1248
Val Gln Leu Met Arg Thr Arg Glu Thr Phe Gly Pro Ser Ala Val Gly
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agt gat gct taa                                                      1260
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Gly Ser Pro Asp Lys Lys Lys Arg Lys Ala Asn Thr Gln Gly Pro Ser
        35                  40                  45

Phe Pro Pro Leu Ser Glu Tyr Ala Pro Pro Asn Pro Asn Ser Asp
    50                  55                  60

His Leu Val Ala Ala Asn Pro Phe Asp Asp Asn Tyr Asn Thr Ile Ser
65                  70                  75                  80

Tyr Lys Pro Leu Pro Ser Ser Asn Pro Tyr Leu Gly Pro Gly Tyr Pro
                85                  90                  95

Gly Phe Gly Gly Tyr Ser Thr Phe Arg Met Pro Pro His Val Pro Pro
            100                 105                 110

Arg Met Ser Ser Pro Tyr Cys Gly Pro Tyr Ser Leu Arg Asn Gln Pro
            115                 120                 125

His Pro Phe Pro Gln Asn Pro Leu Gly Met Gly Phe Asn Arg Pro His
130                 135                 140
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Ala Phe Asn Phe Gly Pro His Asp Asn Ser Ser Phe Gly Asn Pro Ser
145             150             155             160

Tyr Asn Asn Ala Leu Ser Gln Asn Val Asn Met Pro Asn Gln His Phe
                165             170             175

Arg Gln Asn Pro Ala Glu Asn Phe Ser Gln Ile Pro Pro Gln Asn Ala
            180             185             190

Ser Gln Val Ser Asn Pro Asp Leu Ala Ser Asn Phe Val Pro Gly Asn
        195             200             205

Asn Ser Asn Phe Thr Ser Pro Leu Glu Ser Asn His Ser Phe Ile Pro
    210             215             220

Pro Pro Asn Thr Phe Gly Gln Ala Lys Ala Pro Pro Lys Gln Asp
225             230             235             240

Phe Thr Gln Gly Ala Thr Lys Asn Thr Asn Gln Asn Ser Ser Ala His
                245             250             255

Pro Pro His Leu Asn Met Asp Asp Thr Val Asn Gln Ser Asn Ile Glu
            260             265             270

Leu Lys Asn Val Asn Arg Asn Asn Ala Val Asn Gln Glu Asn Ser Arg
        275             280             285

Ser Ser Ser Thr Glu Ala Thr Asn Asn Asn Pro Ala Asn Gly Thr Gln
    290             295             300

Asn Lys Pro Arg Gln Pro Arg Gly Ala Ala Asp Ala Cys Thr Thr Glu
305             310             315             320

Lys Ser Asn Lys Ser Ser Leu His Pro Asn Arg His Gly His Ser Ser
                325             330             335

Ser Asp Pro Val Tyr Pro Cys Gly Ile Cys Thr Asn Glu Val Asn Asp
            340             345             350

Asp Gln Asp Ala Ile Leu Cys Glu Ala Ser Cys Gln Lys Trp Phe His
            355             360             365

Arg Ile Cys Thr Gly Met Thr Glu Thr Ala Tyr Gly Leu Leu Thr Ala
    370             375             380

Glu Ala Ser Ala Val Trp Gly Cys Asp Thr Cys Met Ala Asp Lys Asp
385             390             395             400

Val Gln Leu Met Arg Thr Arg Glu Thr Phe Gly Pro Ser Ala Val Gly
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